

**Amendments to the Claims**

This listing of claims replaces all prior versions, and listings, of claims in the above-identified application:

1. (Currently Amended) A pressure sensitive adhesive composition comprising a pressure sensitive adhesive polymer comprising:

at least one copolymerized monoethylenically unsaturated (meth)acrylic acid ester monomer, wherein the (meth)acrylic acid ester monomer, when homopolymerized, has a Tg of less than about 25°C;

at least one copolymerized monoethylenically unsaturated reinforcing monomer, wherein the reinforcing monomer, when homopolymerized, has a Tg of at least about 25°C; and

at least one copolymerized ~~monoethylenically unsaturated~~ poly(alkylene oxide) (meth)acrylic acid ester monomer;

wherein the pressure sensitive adhesive polymer is functionalized with quaternary ammonium functional groups, and further wherein the quaternary ammonium functional groups are covalently bonded to the polymer.

2. (Cancelled)

3. (Cancelled)

4. (Original) The pressure sensitive adhesive composition of claim 1 further comprising at least one nonreactive poly(alkylene oxide) polymer.

5. (Original) The pressure sensitive composition of claim 4 wherein the nonreactive

poly(alkylene oxide) polymer comprises copolymerized monomers selected from the group consisting of ethylene oxide, propylene oxide, butylene oxide, trimethylene oxide, tetramethylene oxide, their corresponding glycols, and mixtures thereof.

6. (Original) The pressure sensitive adhesive composition of claim 1 wherein the pressure sensitive adhesive polymer has a Tg of no greater than about 10°C.
7. (Original) The pressure sensitive adhesive composition of claim 6 wherein the pressure sensitive adhesive polymer has a Tg of no greater than about -10°C.
8. (Original) The pressure sensitive adhesive composition of claim 7 wherein the pressure sensitive adhesive polymer has a Tg of no greater than about -20°C.
9. (Currently Amended) A pressure sensitive adhesive composition comprising a pressure sensitive adhesive polymer comprising:
  - at least one copolymerized monoethylenically unsaturated (meth)acrylic acid ester monomer, wherein the (meth)acrylic acid ester monomer, when homopolymerized, has a Tg of less than about 25°C; and
  - at least one copolymerized monoethylenically unsaturated reinforcing monomer, wherein the reinforcing monomer, when homopolymerized, has a Tg of at least about 25°C;
  - at least one copolymerized poly(alkylene oxide) (meth)acrylic acid ester monomer;
  - wherein the pressure sensitive adhesive polymer is functionalized with quaternary ammonium functional groups;
  - wherein the quaternary ammonium functional groups are covalently bonded to the polymer; and
  - further wherein the pressure sensitive adhesive composition adheres to wet skin.

10. (Original) The pressure sensitive adhesive composition of claim 1 wherein the pressure sensitive adhesive polymer is inherently antimicrobial.
11. (Original) The pressure sensitive adhesive composition of claim 1 further comprising at least one antimicrobial agent.
12. (Original) The pressure sensitive adhesive composition of claim 11 wherein the antimicrobial agent is present in an amount of at least about 0.05 wt-%, based on the total weight of the pressure sensitive adhesive composition.
13. (Original) The pressure sensitive adhesive composition of claim 11 wherein the antimicrobial agent is selected from the group consisting of iodine, complexed forms of iodine, chlorhexidine salts, parachlorometaxlenol, triclosan, hexachlorophene, fatty acid esters, phenols, surfactants having a C12-C22 hydrophobe and a quaternary ammonium group, quaternary amines, quaternary silanes, hydrogen peroxide, silver, silver salts, silver oxide, silver sulfadiazine, and combinations thereof.
14. (Original) The pressure sensitive adhesive composition of claim 13 wherein the antimicrobial agent is a chlorhexidine salt.
15. (Original) The pressure sensitive adhesive composition of claim 1 wherein the monoethylenically unsaturated reinforcing monomer is a quaternary ammonium monomer.
16. (Cancelled)

17. (Withdrawn-Currently Amended) A pressure sensitive adhesive composition comprising a pressure

sensitive adhesive polymer comprising:

at least one copolymerized monoethylenically unsaturated (meth)acrylic acid ester monomer, wherein the (meth)acrylic acid ester monomer, when homopolymerized, has a Tg of less than about 25°C;

at least one copolymerized quaternary ammonium monomer, wherein the quaternary ammonium monomer, when homopolymerized, has a Tg of at least about 25°C; and

at least one copolymerized poly(alkylene oxide) (meth)acrylic acid ester monomer;

wherein the pressure sensitive adhesive polymer is functionalized with quaternary ammonium functional groups, and further wherein the quaternary ammonium functional groups are covalently bonded to the polymer.

18. (Withdrawn) The pressure sensitive adhesive composition of claim 17 further comprising at least one nonreactive poly(alkylene oxide) polymer.

19. (Withdrawn) The pressure sensitive adhesive composition of claim 17 wherein the pressure sensitive adhesive is inherently antimicrobial.

20. (Withdrawn-Currently Amended) A pressure sensitive adhesive composition comprising:

at least one antimicrobial agent; and

a pressure sensitive adhesive polymer comprising:

at least one copolymerized monoethylenically unsaturated (meth)acrylic acid ester

monomer, wherein the (meth)acrylic acid ester monomer, when homopolymerized, has a Tg of less than about 25°C;

at least one copolymerized quaternary ammonium monomer, wherein the quaternary ammonium monomer, when homopolymerized, has a Tg of at least about 25°C; and

at least one copolymerized poly(alkylene oxide) (meth)acrylic acid ester monomer;

wherein the pressure sensitive adhesive polymer is functionalized with quaternary ammonium functional groups, and further wherein the quaternary ammonium functional groups are covalently bonded to the polymer.

21. (Cancelled)

22. (Cancelled)

23. (Cancelled)

24. (Withdrawn – Currently Amended) A pressure sensitive adhesive composition comprising:  
at least one antimicrobial agent;  
at least one nonreactive poly(alkylene oxide) polymer; and  
a pressure sensitive adhesive polymer comprising:  
at least one copolymerized monoethylenically unsaturated (meth)acrylic acid ester monomer, wherein the (meth)acrylic acid ester monomer, when homopolymerized, has a Tg of less than about 25°C; [[and]]

at least one copolymerized quaternary ammonium monomer, wherein the quaternary ammonium monomer, when homopolymerized, has a Tg of at least about

25°C; and

at least one copolymerized poly(alkylene oxide) (meth)acrylic acid ester

monomer;

wherein the pressure sensitive adhesive polymer is functionalized with quaternary ammonium functional groups, and further wherein the quaternary ammonium functional groups are covalently bonded to the polymer.

25. (Currently Amended) A pressure sensitive adhesive composition comprising a pressure sensitive adhesive polymer comprising:

at least one copolymerized monoethylenically unsaturated (meth)acrylic acid ester monomer, wherein the (meth)acrylic acid ester monomer, when homopolymerized, has a Tg of less than about 25°C; [[and]]

at least one copolymerized monoethylenically unsaturated reinforcing monomer, wherein the reinforcing monomer, when homopolymerized, has a Tg of at least about 25°C; and

at least one copolymerized poly(alkylene oxide) (meth)acrylic acid ester monomer;

wherein the pressure sensitive adhesive polymer is functionalized with quaternary ammonium functional groups, and further wherein the quaternary ammonium functional groups are covalently bonded to the polymer; and further wherein the pressure sensitive adhesive polymer includes no more than about 5 weight percent of copolymerized acidic monomers, based on the total weight of pressure sensitive adhesive polymer.

26. (Cancelled)

27. (Original) An article comprising a backing and the pressure sensitive adhesive

composition of claim 1 on at least a portion of a surface thereof.

28. (Original) The article of claim 27 which adheres to wet skin.

29. (Original) The article of claim 28 which has an initial wet skin adhesion of at least about 0.8 N/dm.

30. (Original) The article of claim 29 which has an initial wet skin adhesion of at least about 1.6 N/dm.

31. (Original) The article of claim 28 which has an initial dry skin adhesion of at least about 0.8 N/dm.

32. (Original) The article of claim 28 which has an initial wet skin adhesion that is at least about 65% of the initial dry skin adhesion.

33. (Original) The article of claim 27 which is a medical article.

34. (Cancelled)

35. (Withdrawn) An article comprising a backing and the pressure sensitive adhesive composition of claim 17 disposed on at least a portion of a surface thereof.

36. (Withdrawn) An article comprising a backing and the pressure sensitive adhesive composition of claim 20 disposed on at least a portion of a surface thereof.

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For: PRESSURE SENSITIVE ADHESIVES HAVING QUATERNARY AMMONIUM FUNCTIONALITY,  
ARTICLES AND METHODS

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37. (Cancelled)

38. (Withdrawn) An article comprising a backing and the pressure sensitive adhesive composition of claim 24 disposed on at least a portion of a surface thereof.

39. (Withdrawn) An article comprising a backing and the pressure sensitive adhesive composition of claim 25 disposed on at least a portion of a surface thereof.

40. (Cancelled)

41. (Withdrawn – Currently Amended) A method of making a pressure sensitive adhesive composition, the method comprising combining under conditions effective to cause polymerization:

at least one monoethylenically unsaturated (meth)acrylic acid ester monomer, which when homopolymerized, has a Tg of less than about 25°C;

at least one quaternary ammonium monomer, wherein the quaternary ammonium monomer, when homopolymerized, has a Tg of at least about 25°C; and

~~optionally at least one monoethylenically unsaturated poly(alkylene oxide)~~  
(meth)acrylic acid ester monomer;

wherein the pressure sensitive adhesive polymer is functionalized with quaternary ammonium functional groups, and further wherein the quaternary ammonium functional groups are covalently bonded to the polymer.

42. (Withdrawn) The method of claim 41 wherein the monomers are copolymerized prior to the addition of at least one nonreactive poly(alkylene oxide) polymer.



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43. (Withdrawn) The method of claim 41 wherein the monomers are copolymerized prior to the addition of at least one antimicrobial agent.

44. (Original) A method of using an adhesive article, the method comprising:  
providing an adhesive article comprising a backing and the pressure sensitive adhesive composition of claim 1 disposed on at least a portion of a surface thereof; and  
adhering the adhesive article to skin.

45. (Withdrawn – Currently Amended) A method of using an adhesive article, the method comprising:  
providing an adhesive article comprising a backing and the pressure sensitive adhesive composition of claim [[16]] 9 disposed on at least a portion of a surface thereof; and  
adhering the adhesive article to skin.

46. (Withdrawn) A method of using an adhesive article, the method comprising:  
providing an adhesive article comprising a backing and the pressure sensitive adhesive composition of claim 17 disposed on at least a portion of a surface thereof; and  
adhering the adhesive article to skin.

47. (Withdrawn) A method of using an adhesive article, the method comprising:  
providing an adhesive article comprising a backing and the pressure sensitive adhesive composition of claim 20 disposed on at least a portion of a surface thereof; and  
adhering the adhesive article to skin.

48. (Cancelled)

49. (Withdrawn) A method of using an adhesive article, the method comprising:  
providing an adhesive article comprising a backing and the pressure sensitive  
adhesive composition of claim 24 disposed on at least a portion of a surface thereof; and  
adhering the adhesive article to skin.
50. (Original) A method of using an adhesive article, the method comprising:  
providing an adhesive article comprising a backing and the pressure sensitive  
adhesive composition of claim 25 disposed on at least a portion of a surface thereof; and  
adhering the adhesive article to skin.
51. (Cancelled)
52. (Previously Presented) An article comprising a backing and the pressure sensitive adhesive  
composition of claim 9 on at least a portion of a surface thereof.